

Application of Kenji MIYAZAKI et al.  
METHOD OF ANALYZING C-TERMINAL  
AMINO ACID SEQUENCE OF PEPTIDE  
Assignee: NEC CORPORATION  
Attorney Docket No.: Q96529  
August 15, 2006

FIG. 1

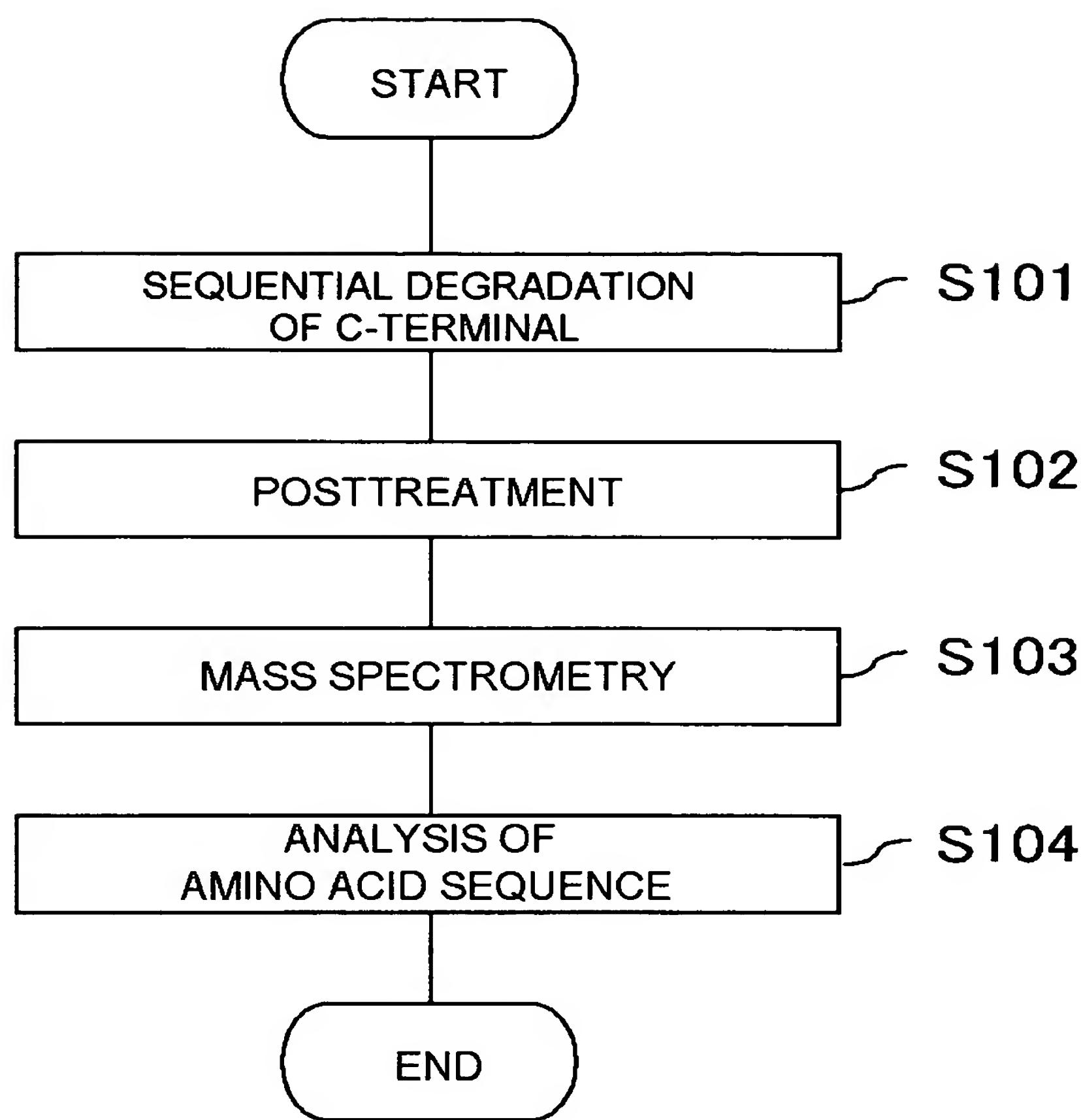


FIG. 2

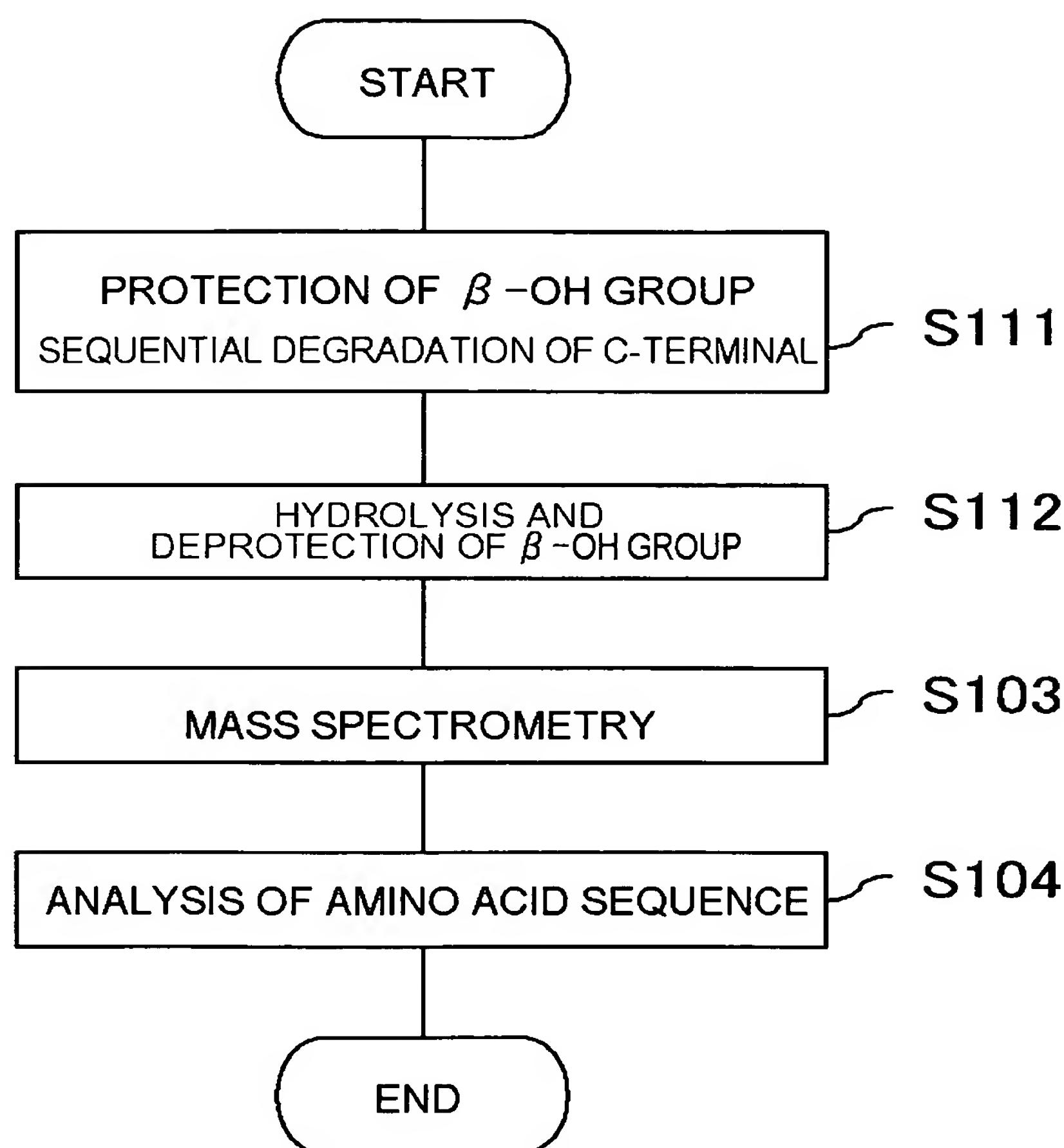


FIG. 3

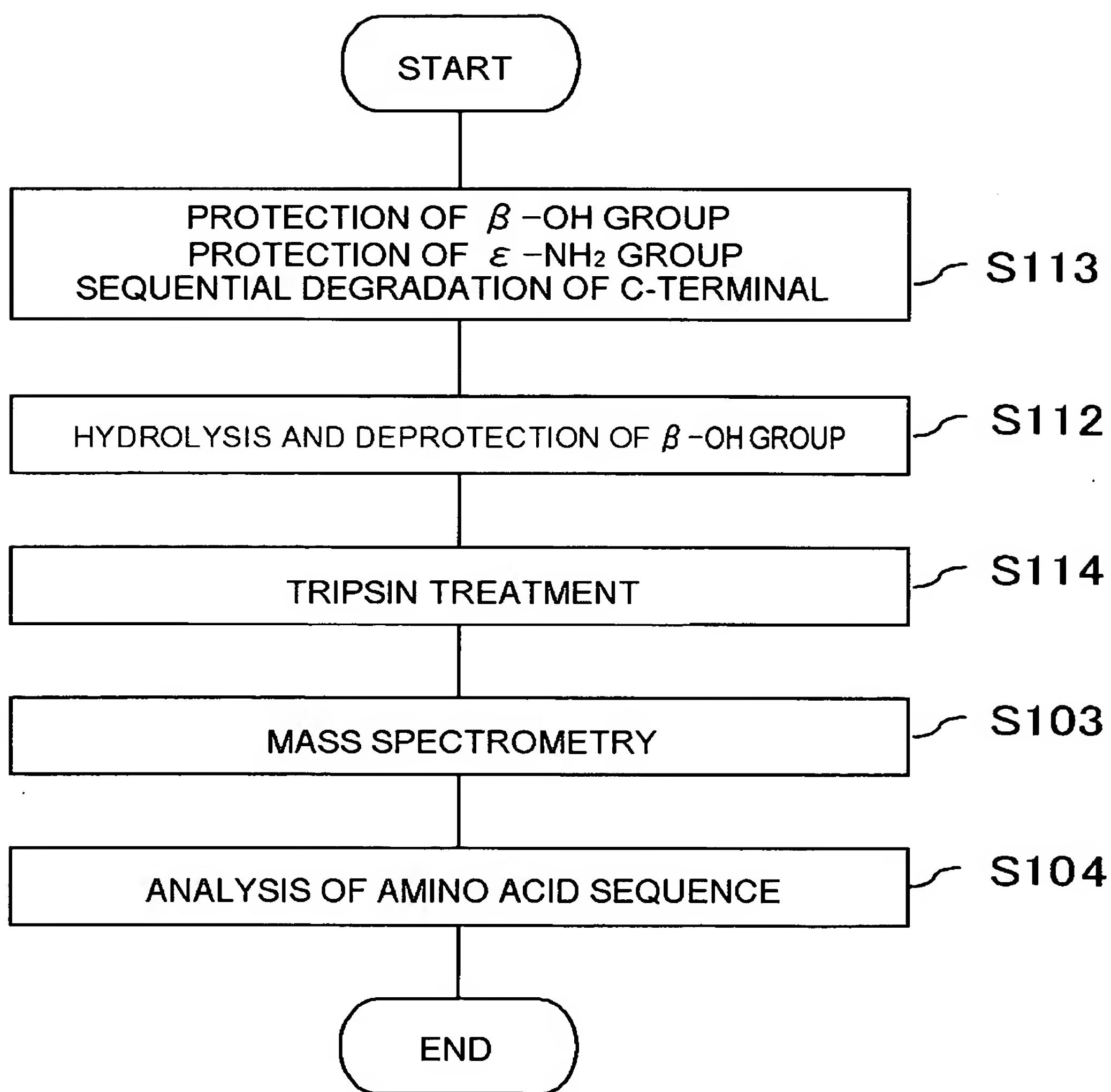
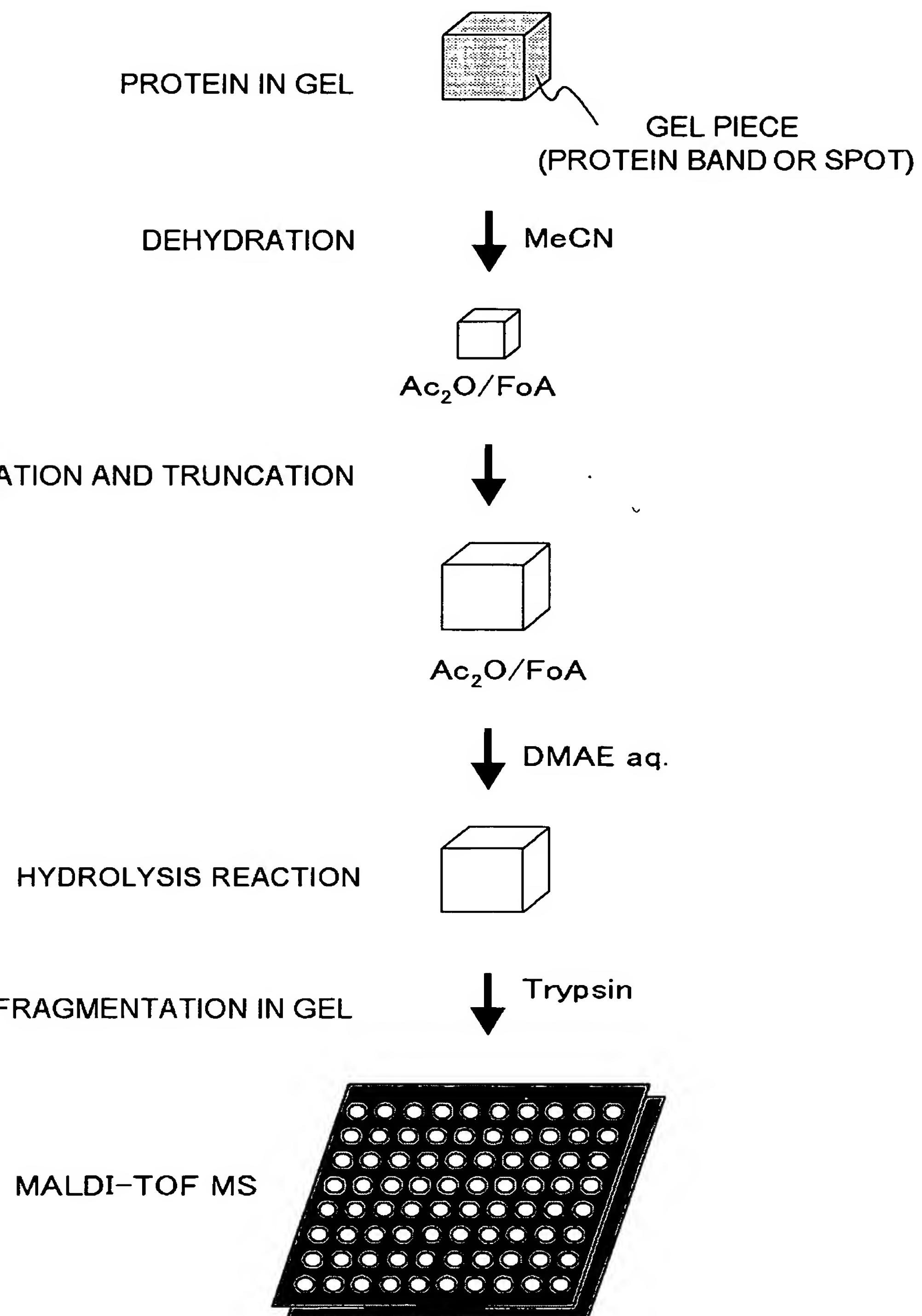


FIG. 4



## FIG. 5

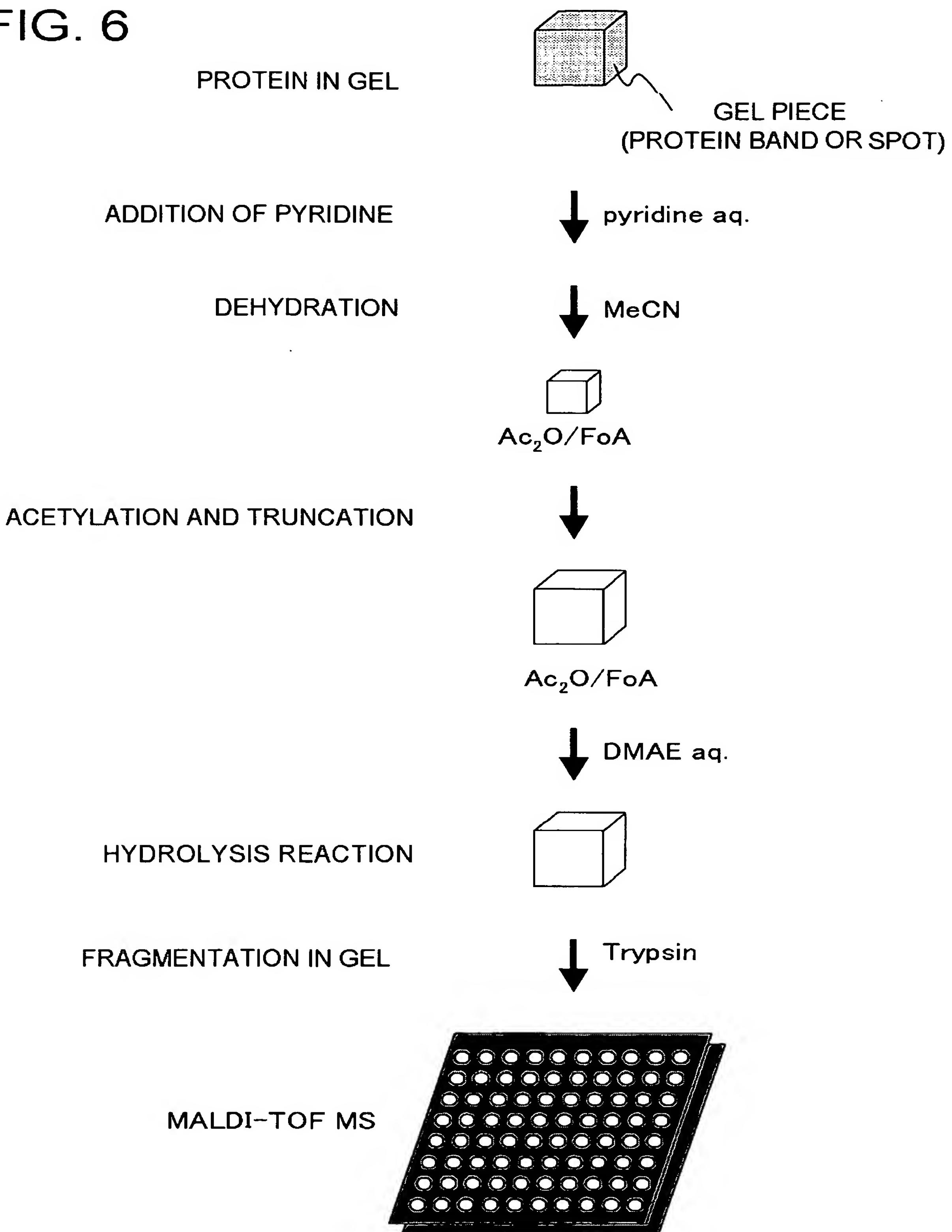
### REACTION CONDITION OF ACETYLATION AND TRUNCATION OF PROTEIN IN GEL (WITHOUT USE OF PERFLUORIC ACID)

REACTION	REAGENT COMPOSITION	TEMPERATURE	PERIOD
ACETYLATION AND TRUNCATION	1%~30% Ac <sub>2</sub> O/FoA	50~100°C	4 TO 110 HOURS

### REACTION CONDITION OF HYDROLYSIS OF PROTEIN IN GEL

REACTION	REAGENT COMPOSITION	TEMPERATURE	PERIOD
HYDROLYSIS	10~20% AQUEOUS DMAE SOLUTION	50~70°C	30 TO 120 MINUTES

FIG. 6



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## FIG. 7

**myoglobin-horse**

[1-153] mass = 17738.180  
Cleavage at R

Small polar:	D(7)	E(13)	N(3)	Q(6)			
Large polar:	K(19)	R(2)	H(11)				
Small non-polar:	S(5)	T(7)	A(15)	G(15)			
Large non-polar:	L(17)	I(9)	V(7)	M(2)	F(7)	Y(2)	W(2)
Special:	C(0)	P(4)					

K[16] + 42.04      K[42] + 42.04      K[45] + 42.04      K[47] + 42.04  
K[50] + 42.04      K[56] + 42.04      K[62] + 42.04      K[63] + 42.04  
K[77] + 42.04      K[78] + 42.04      K[79] + 42.04      K[87] + 42.04  
K[96] + 42.04      K[98] + 42.04      K[102] + 42.04      K[118] + 42.04  
K[133] + 42.04      K[145] + 42.04      K[147] + 42.04

1 G L S D G E W Q Q V L N V W G K V E A D I A G H G Q E V L I 30  
31 R I f t g h p e t l e k f d k f k h l k t e a e m k a s e d 60  
61 l k k h g t v v l t a l g g i l k k k g h h e a e l k p l a 90  
91 q s h a t k h k i p i k y l e f i s d a i i h v l h s k h p 120  
121 g n f g a d a q g a m t k a l e l f r N D I A A K Y K E L G 150  
151 F Q G 153

(1) [1-31] = 3444.742 (2) [32-139] = 12692.649 (3) [140-153] = 1636.809

FIG. 8

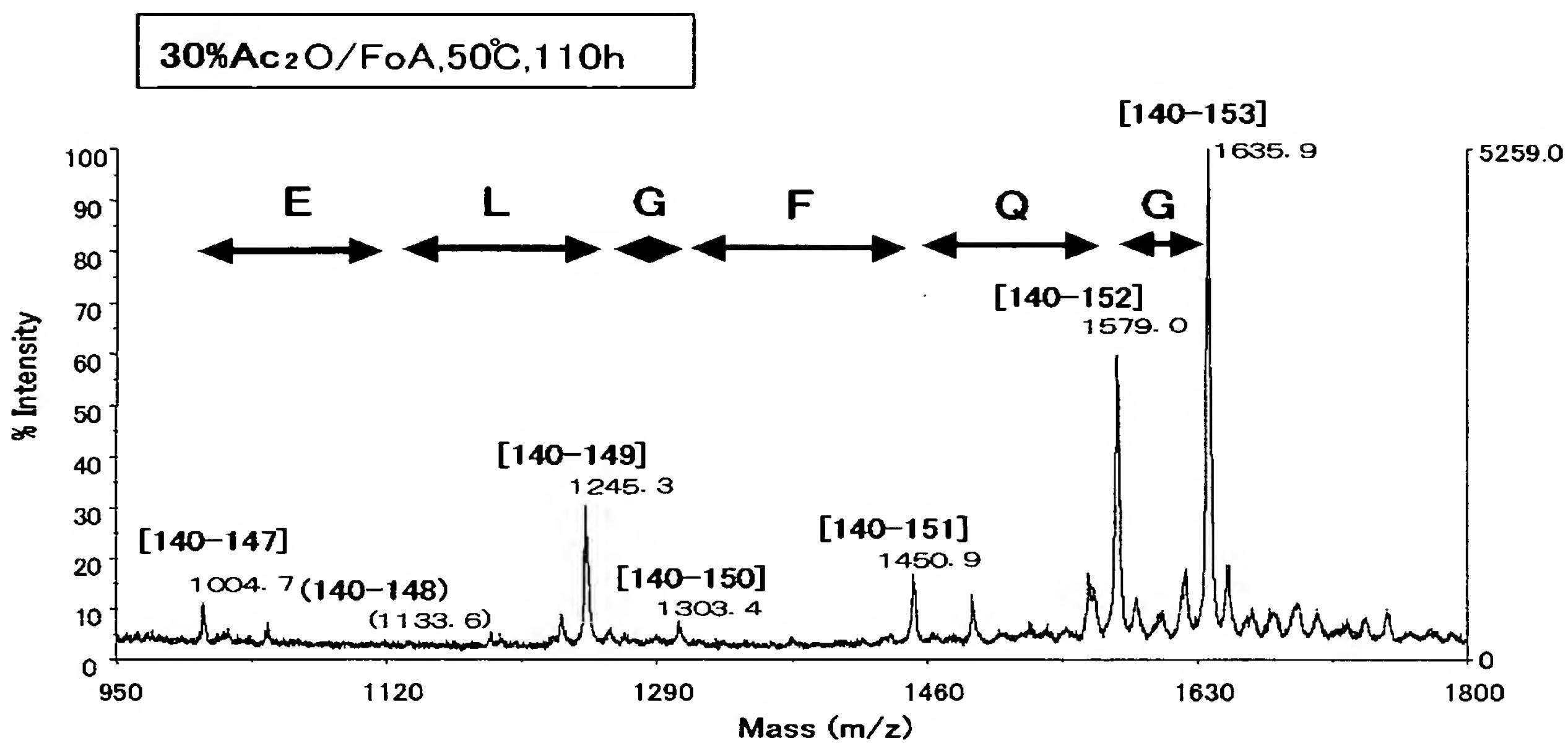


FIG. 9

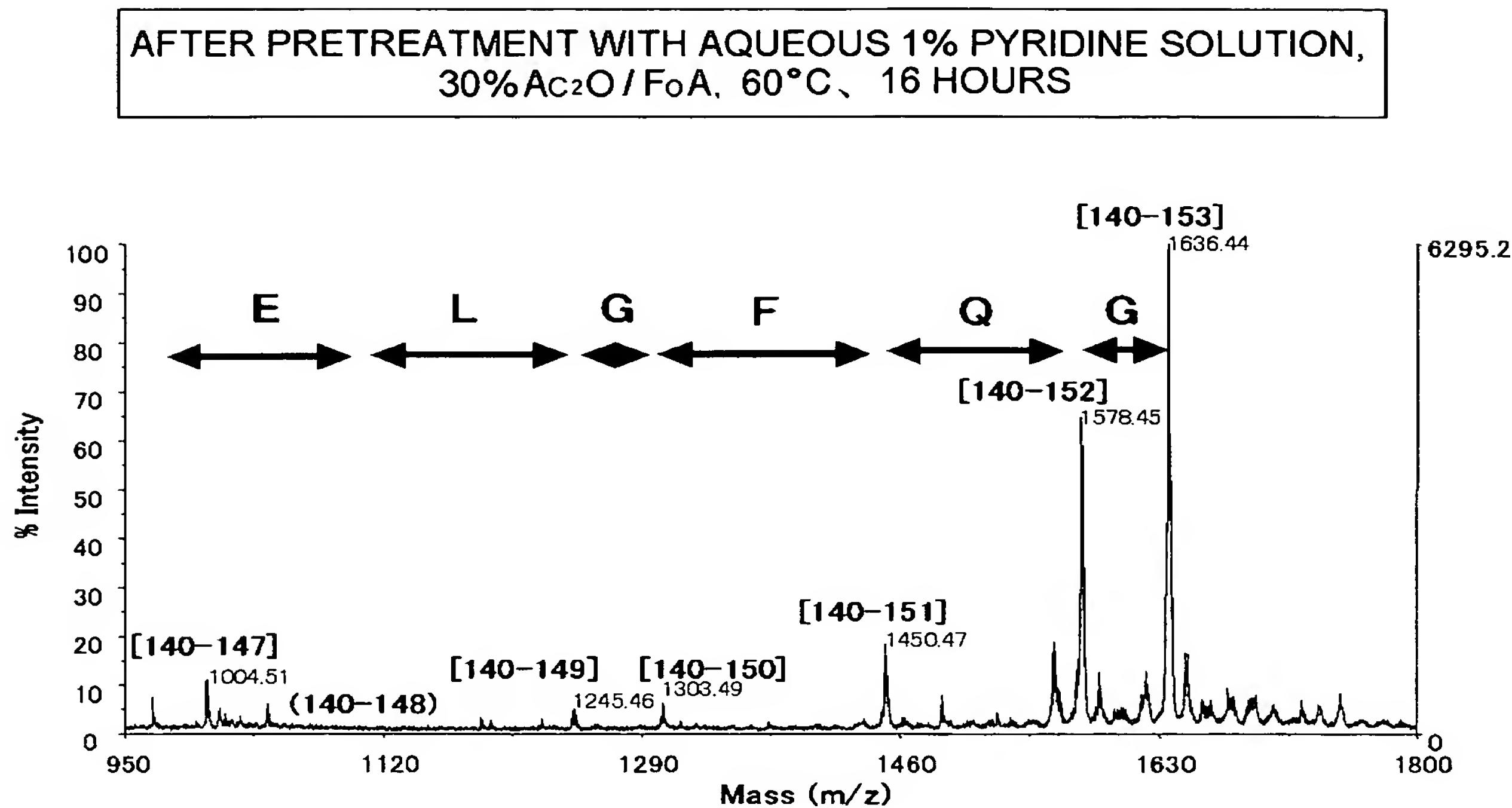


FIG. 10

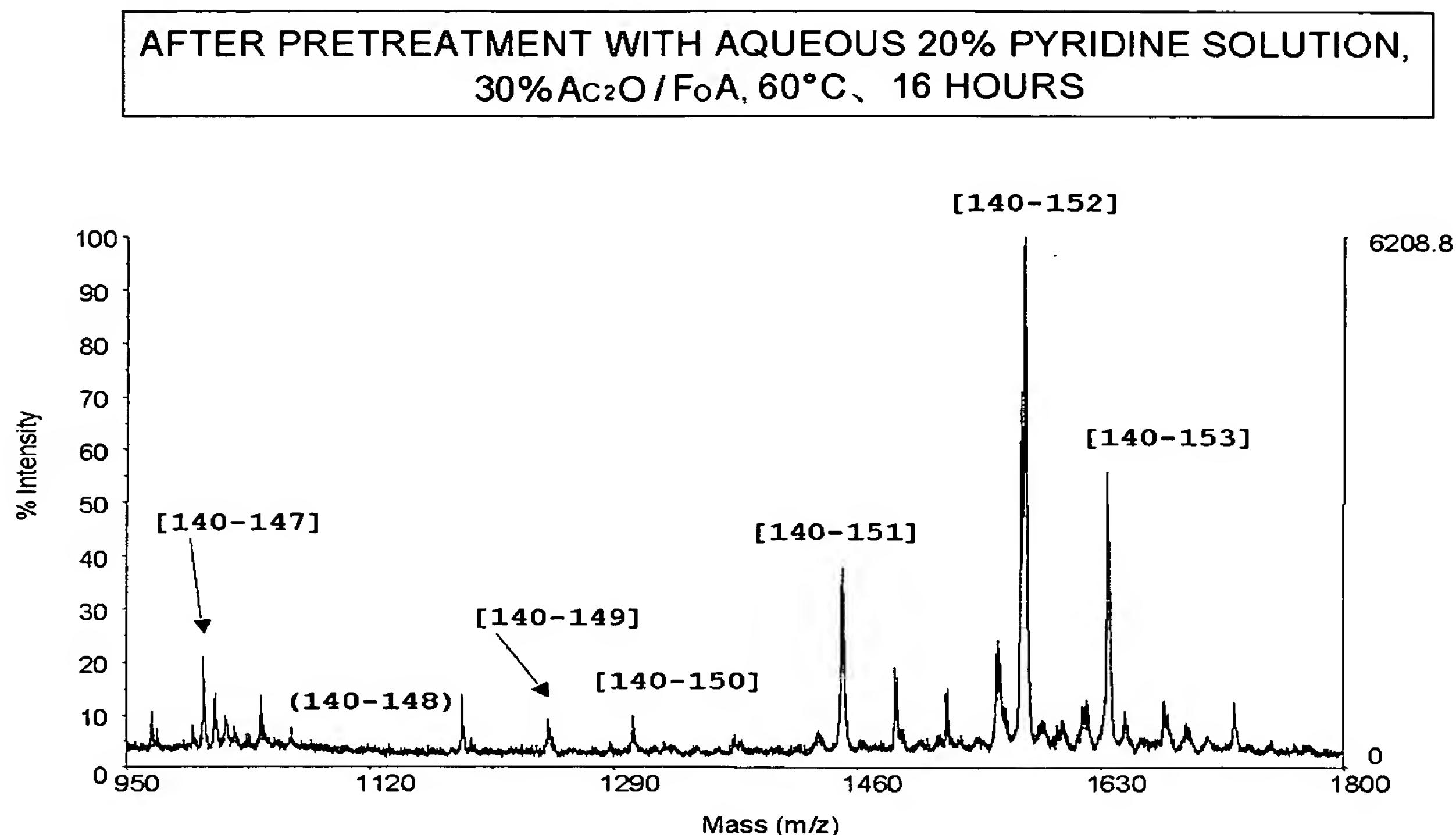
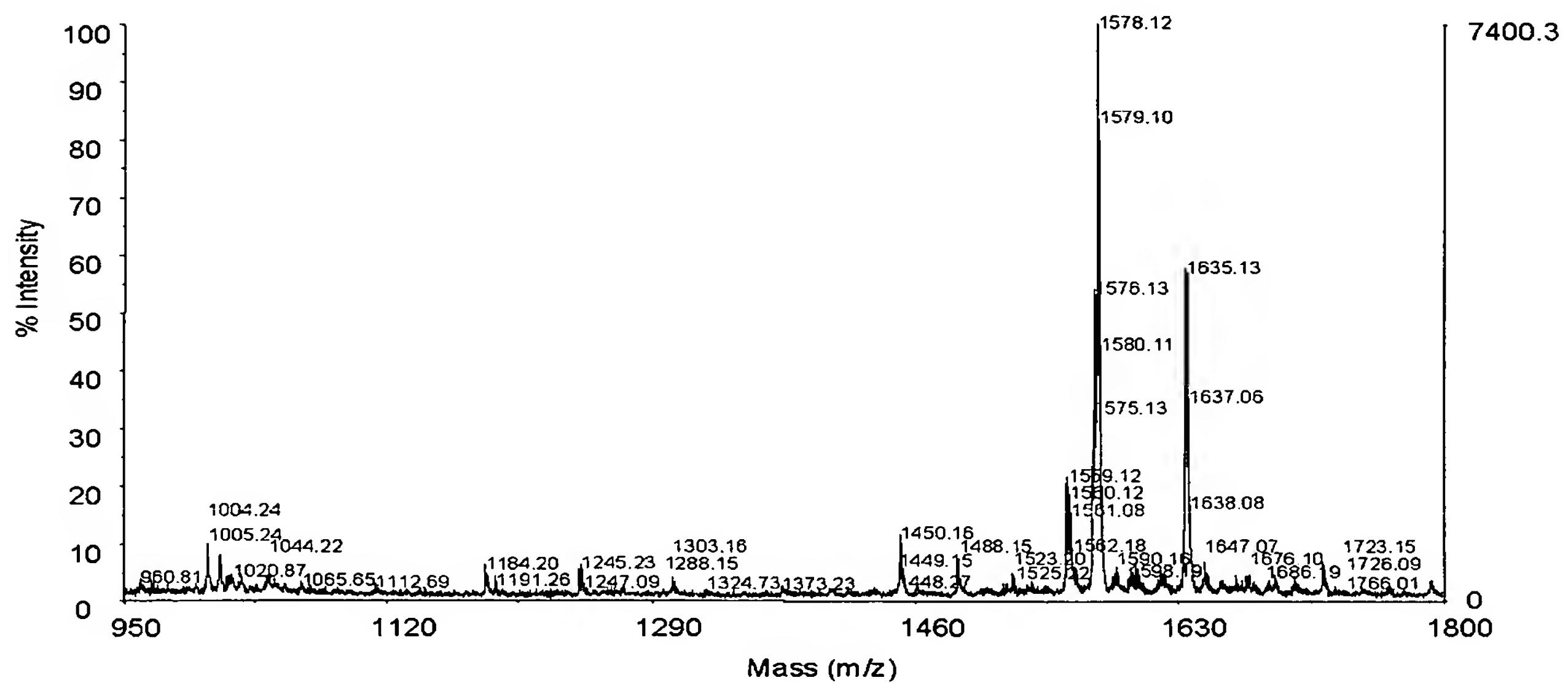


FIG. 11

AFTER PRETREATMENT WITH AQUEOUS 20% PYRIDINE SOLUTION,  
30% Ac<sub>2</sub>O / FoA, 60°C, 1 HOUR



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FIG. 12

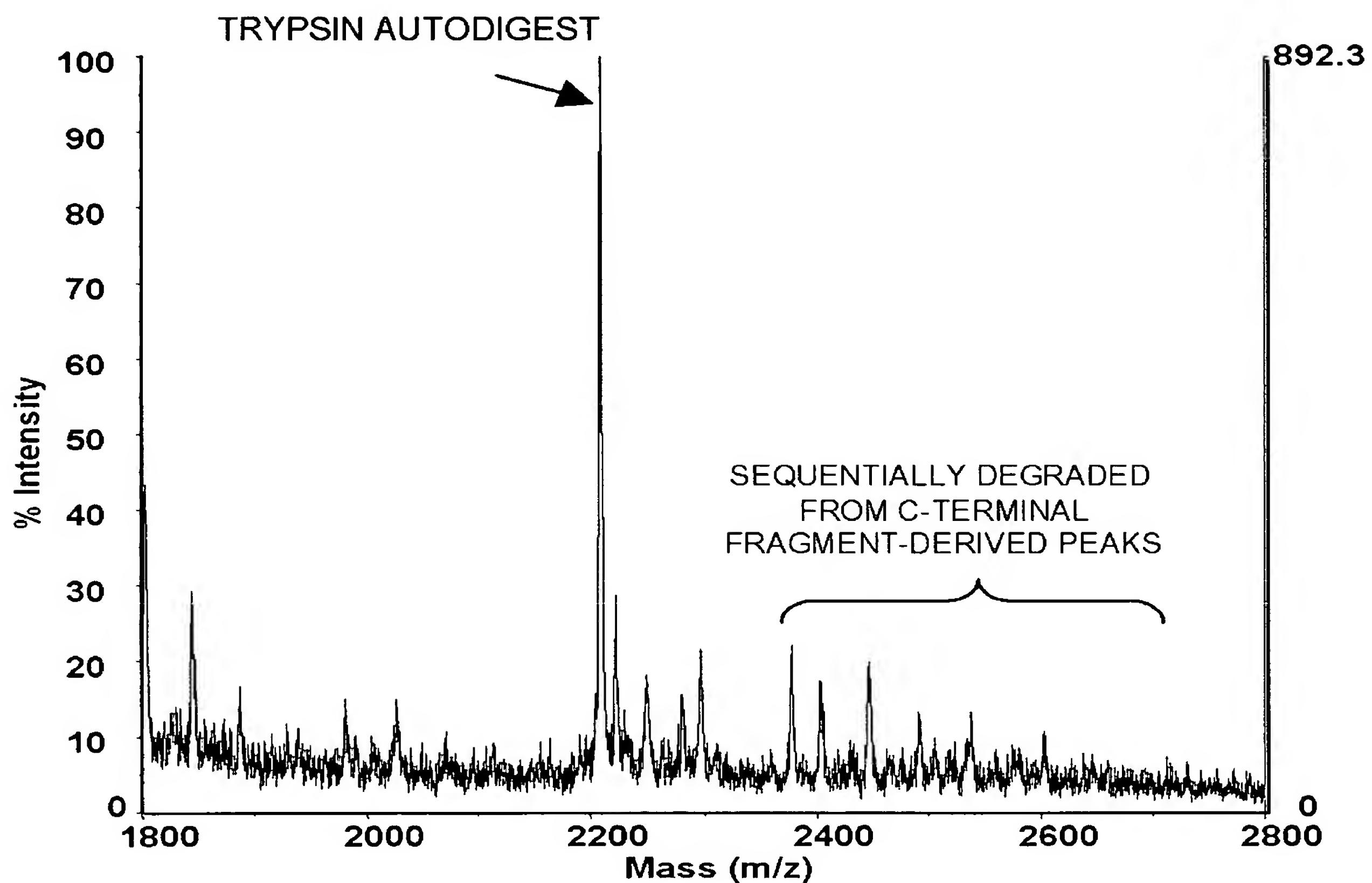


FIG. 13

